

## LEGIC advant-reader



### Intelligent readers and operating units, for access control and IDS applications

- RS-485- and Clock/Data interface
- with or without keypad

The LEGIC advant-readers "Accentric" are used as contactless readers and operating units in access control and intrusion detection systems.

A combination of transponder and PIN can be used for performing functions via the keypad. Additional functions (e.g. switching and control functions/macros) that can be activated via the operating unit keypad can be defined in the programming of the evaluation unit or control panel.

The reader has different interfaces available, providing a wide variety of application options.

### Features

- Multi industry standard compatible (13.56 MHz read / write)
- Simultaneous multi RF standard mode
- Advanced high security encryption, DES / 3DES
- Physical Master-Token System Control and Automatic Key Management
- Easy realisation of multi uses
- Compatible with ISO Standards 15693 and 14443 A
- Comply to US government standards FIPS 201/PACS V2.2 Transition State Specification
- Downwardcompatibly to LEGIC prime transponder
- Straightforward, logical operating concept.
- Simple start-up
- Simple RS-485 address assignment, manual or auto-matic
- A special evaluation process ensures extremely stable transmission.
- The reader is protected against moisture
- Can be used indoors and outdoors at temperatures from -25 °C to +55 °C.
- Simple installation with two or three screws in the wall
- The reader can also be mounted directly on ordinary commercial DIN flush mounted sockets.
- The housing faceplate can be changed subsequently (various colors are available).

#### Special features of the keypad:

- International marking of the LEDs and keypad.
- Abrasion-resistant 10-digit keypad with 6 additional function keys.
- Tactile and acoustic feedback.
- Designed for use at night with timed background illumination.

#### LED indication:

The three LEDs of the reader (green, yellow, red/green) are controlled by the evaluating unit / control panel in normal operation. Depending on the evaluating or control panel used, the function is pre-assigned or can be programmed.

#### Interfaces:

Each reader type includes an RS-485 interface as part of the standard equipment. The interfaces can be used alternatively.

- **RS-485**           Modulbus protocol (ACS-8, IK3)
- **Clock/Data**     Data protocol ACS-8, ACS-2, ACT and TRS compatible

See "Technical data" for further interface parameters.

## Technical data

<b>Operating voltage</b>	12 V DC / 24 V DC
<b>Operating voltage range</b>	9.5 V to 30 V DC
<b>Current consumption at 12 V DC:</b>	
- In standby mode	< 45 mA (average)
- Timed read/write mode	< 200 mA (incl. LEDs, buzzer, keypad lighting)
<b>Transmission frequency</b>	13.56 MHz
<b>Reading distance</b>	up to 8 cm; depending on transponder typ and mounting site- /surroundings
<b>Interfaces:</b>	
- RS-485	Bidirectional interface with "Modulbus" protocol Suitable for ACS-8 and IK3 EU Transmission range up to 1200 m
- Clock/Data	Unidirectional interface Transmission range up to 200 m TTL-level, 4 bit code according to DIN 9785, active = LOW Data protocol ACS-8
<b>Connection cable</b>	12-wire shielded, 6 m
<b>Protection category as per DIN 40050</b>	IP 65
<b>Environmental class as per VdS</b>	III
<b>Operating temperature range</b>	-25 °C to +55 °C
<b>Housing dimensions (W x H x D)</b>	75 x 142 x 32 mm
<b>Colour</b>	white aluminum (similar to RAL 9006)

## Ordering information



white aluminum  
(similar to RAL 9006)



pure white  
(similar to RAL 9010)



anthracite  
(atlas gray metallic)

Item No.	Description
026424	<b>LEGIC advant-reader "Accentic" without keypad</b> RS-485 and Clock/Data interface  -approval: G110043 (IDS), Class C Z110001 (ACS), Class C
026425	<b>LEGIC advant-reader "Accentic" with keypad</b> RS-485 and Clock/Data interface  -approval: G110044 (IDS), Class C Z110002 (ACS), Class C

### Accessories

Item No.	Description
023314	White aluminium housing cover for reader with keypad
023315	Pure white housing cover for reader with keypad
023316	Anthracite housing cover for reader with keypad
023317	Pure white housing cover for reader without keypad
023318	Anthracite housing cover for reader without keypad
023319	White aluminium housing cover for reader without keypad
023501	Decorative screening / weather protection
023329	Mounting plate

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